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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/214,701	09/30/1999	GEORGE H. LOWELL	484112.408USPC	8314
•	7590 02/23/200 ECTUAL PROPERTY	EXAMINER		
701 FIFTH AVE SUITE 5400 SEATTLE, WA 98104			PARKIN, JEFFREY S	
			ART UNIT	PAPER NUMBER
,			1648	
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MONTHS		02/23/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

-		Application No.	Applicant(s)			
Office Action Summary		09/214,701	LOWELL ET AL.			
		Examiner	Art Unit			
		Jeffrey S. Parkin, Ph.D.	1648			
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE <u>03</u> MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) 又	Responsive to communication(s) filed on 22 No	ovember 2006.				
	This action is FINAL . 2b) \boxtimes This action is non-final.					
′=	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
	on of Claims					
	Claim(s) 33-42 is/are pending in the application.					
	4a) Of the above claim(s) is/are withdrawn from consideration.					
·	5) Claim(s) is/are allowed.					
	6) Claim(s) 33-42 is/are rejected.					
·	Claim(s) is/are objected to.	coloction requirement				
تــا(ه	Claim(s) are subject to restriction and/or	election requirement.	·			
Applicati	on Papers					
9) 🔲 -	The specification is objected to by the Examine	r				
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority u	nder 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
	1. Certified copies of the priority documents have been received.					
	2. Certified copies of the priority documents have been received in Application No					
	3. Copies of the certified copies of the priority documents have been received in this National Stage					
	application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.						
Attach	(6)					
Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date						
3) Information Disclosure Statement(s) (PTO/SB/08) Space No(s)/Mail Date 11/32/2006 Space No(s)/Mail Date 11/32/2006						
Paper No(s)/Mail Date <u>11/22/2006</u> . 6) Other:						

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Detailed Office Action

37 C.F.R. § 1.114

A request for continued examination under 37 C.F.R. § 1.114, including the fee set forth in 37 C.F.R. § 1.17(e), was filed in this application after final rejection on 22 November, 2006. Since this application is eligible for continued examination under 37 C.F.R. § 1.114, and the fee set forth in 37 C.F.R. § 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 C.F.R. § 1.114. Applicants' submission filed on 22 November, 2006, has been entered.

Status of the Claims

Claims 1-32 have been canceled without prejudice or disclaimer, claims 33 and 34 amended, and new claims 35-42 submitted in the communication filed 22 November, 2006.

Information Disclosure Statement

The information disclosure statement filed 22 November, 2006, has been placed in the application file and the information referred to therein has been considered.

35 U.S.C. § 103(a)

The following is a quotation of 35 U.S.C. § 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner

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in which the invention was made.

Subject matter developed by another person, which qualifies as prior art only under subsection (f) or (g) of section 102 of this title, shall not preclude patentability under this section where the subject matter and the claimed invention were, at the time the invention was made, owned by the same person or subject to an obligation of assignment to the same person.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. § 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 C.F.R. § 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. § 103(c) and potential 35 U.S.C. § 102(f) or (g) prior art under 35 U.S.C. § 103(a).

The previous rejection of claims 33 and 34 under 35 U.S.C. \$ 103(a) as being unpatentable over Lowell (1998), is hereby withdrawn in response to applicants' amendment and arguments.

Claims 33-42 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Sarngadharan et al. (1992) in view of Lowell (1998) and Anselem et al. (1998). The amended claims are directed toward a method for the induction of anti-HIV neutralizing antibodies by administering a composition comprising a C-terminal truncated qp160, proteosome, and bioadhesive nanoemulsion. Sarngadharan and colleagues provide an oligomeric qp160 obtained from a chronically infected $HIV-I_{451}$ cell line. This is the same antigen employed by applicants. Lowell provides art-recognized methods for increasing the immunogenicity of an immungenic preparation through the administration of proteosomes and

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Finally, Anselem and associates teach that hydrophobic anchors. bioadhesive addition of nanoemulsions increases immunogenicity of an immunogen. Therefore, it would have been prima facie obvious to one of ordinary skill in the art at the time of the invention to prepare an immunogenic composition comprising the recombinant oligomeric gp160 of Sarngadharan et al. (1992), the proteosomes and hydrophobic anchor of Lowell (1998), and the bioadhesive nanoemulsion of Anselem et al. (1998). One of ordinary skill in the art would have been motivated to employ both proteosomes and nanoemulsions since the prior art demonstrates that these reagents increase the immunogenicity of any given immunogen. Therefore, their inclusion in an immunogenic composition would be expected to increase the immunogenicity of the immunogen of interest. One of ordinary skill in the art would have also been motivated to administer this composition to mucosal sites since HIV is a sexually transmitted disease. Strong mucosal immune responses should prove useful in combating HIV infection.

Correspondence

Any inquiry concerning this communication should be directed to Jeffrey S. Parkin, Ph.D., whose telephone number is (571) 272-0908. The examiner can normally be reached Monday through Thursday from 10:30 AM to 9:00 PM. A message may be left on the examiner's voice mail service. If attempts to reach the examiner are unsuccessful, the examiner's supervisor, Bruce R. Campell, Ph.D., can be reached at (571) 272-0974. Direct general status inquiries to the Technology Center 1600 receptionist at (571) 272-1600. Informal communications may be submitted to the Examiner's RightFAX account at (571) 273-0908.

Applicants are reminded that the United States Patent and Trademark Office (Office) requires most patent related correspondence to be: a) faxed to the Central FAX number (571-273-8300) (updated as of July 15, 2005), b) hand carried or delivered to the Customer Service Window (now located at the Randolph Building, 401 Dulany Street, Alexandria, VA 22314), c) mailed to the mailing address set forth in 37 C.F.R. § 1.1 (e.g., P.O. Box 1450, Alexandria, VA 22313-1450), or d) transmitted to the Office

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using the Office's Electronic Filing System. This notice replaces all prior Office notices specifying a specific fax number or hand carry address for certain patent related correspondence. For further information refer to the <u>Updated Notice of Centralized Delivery and Facsimile Transmission Policy for Patent Related Correspondence</u>, and <u>Exceptions Thereto</u>, 1292 Off. Gaz. Pat. Office 186 (March 29, 2005).

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Respectfully,

Jeffrey S. Parkin, Ph.D. Primary Examiner

Art Unit 1648

20 February, 2007